New York State Integrated Pest Management Program

Microbial Control of Lepidoptera Attacking Sweet Corn

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Objective:

Evaluate the effectiveness of foliar sprays and granular applications of Mycotrol (*Beauvaria bassiana*) against the Lepidopteran complex on sweet corn, and compare them to Dipel (*Bacillus thuringiensis*) treatments and to a standard treatment of Warrior.

Results:

Greenhouse and field tests were performed to evaluate the effectiveness of foliar applications of Mycotrol, Dipel, and Warrior against the corn Lepidoptera, primarily European corn borer. In the greenhouse tests Mycotrol provided significantly better control than the untreated check, and there were no differences between foliar sprays and granular applications. Dipel provided significantly better control than two of the three Mycotrol treatments. Warrior provided significantly better control than all other treatments. In the field tests, Warrior and Dipel provided significantly more undamaged ears than the 52 percent in the untreated check, but Mycotrol did not. Warrior, but not Dipel, provided significantly more undamaged ears than any of the Mycotrol treatments.

For a printed copy of the entire report, please contact the NYS IPM office at:

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